

SABIC Innovative Plastics GELOY XP7550 ASA+PC

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC) , Polycarbonate/ASA Alloy, Unreinforced

Material Notes:

Injection molding ASA-PC Blend suitable for exterior applications featuring outdoor weatherability, toughness, good heat performance and excellent flow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-GELOY-XP7550-ASAPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
Moisture Absorption	0.300 %	0.300 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	14 g/10 min	14 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
Melt Index of Compound	26 g/10 min	26 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
	44.0 MPa	6380 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	37 %	37 %	50 mm/min; ISO 527
	40 %	40 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	5 mm/min; ASTM D638
	2.55 GPa	370 ksi	1 mm/min; ISO 527
Flexural Yield Strength	74.0 MPa	10700 psi	2 mm/min; ISO 178
	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.75 J/cm	7.03 ft-lb/in	ASTM D256
	0.530 J/cm	0.993 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1A
	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	4.00 J/cm ²	19.0 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	36.0 J	26.6 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C	40.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	72.0 µm/m-°C	40.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	79.0 μm/m-°C Metric	43.9 μin/in-°F English	Comments ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Hot Ball Pressure Test	85.0 °C	185 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	104 °C	219 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	89.0 °C	192 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 °C	192 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	105 °C	221 °F	Rate B/50; ASTM D1525
	105 °C	221 °F	Rate B/50; ISO 306
	106 °C	223 °F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Gloss	94 %	94 %	untextured, 60 degrees; ASTM D523

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